

Rates of Consumption of Water and Food by AEM Control, Flight and Hindlimb-suspended Animals

Group	Food gm/day/100 g body wt	Water ml/day/rat
AEM Control (n=8)	19.4	12.1
Flight (n=8)	20.3	12.5
Suspended (n=7)	19.4	NM

Food and water consumption was determined during the period animals were housed in the AEM (control and flight) or were hindlimb suspended. AEM control animals were loaded in the AEM at 0930 h EDT on October 31, 1991 and were removed at 1130 h EDT on November 6, 1991. Flight animals were loaded into their AEM at 2200 h EDT, September 11, 1991 (launch-21h) and removed at 0545 h EDT, September 18, 1991 (landing+2h; launch+5.5 d). Suspended animals were tail-cast hindlimb suspended (Jaspers and Tischler, J. Appl. Physiol. 57: 1472, 1984) at 2330 h EDT, October 30, 1991 and removed from their cages at 1130 h EDT, November 5, 1991. Total food and water consumed was measured as the difference in starting and final weights divided by the period of time and normalized to 100 g body weight of the animals for each group.

NM = not measured because of different water system for suspended animals that can lead to uncontrolled leakage from bottles